

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/24/2019 04/24/2019	Sterling York

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_MA0003_01_s_2013_4				
Comment Code					
Inspector Comment					
Sutter Yard has a copy of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_MA0003_01_s_2013_6				
Comment Code					
Inspector Comment					
The Sutter Yard has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_MA0003_01_s_2013_7				
Comment Code					
Inspector Comment					
The Sutter Yard has received flood fight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/24/2019 04/24/2019	Sterling York

LM Start	0.01	Rating **	M	Issue No.	8
LM End	5.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.897983 °	38.950817 °
				-121.617871 °	-121.585816 °
DWR ID	DWR_MA0003_01_s_2019_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation needs to be maintained, Spring 2019.					

Photo 1 of 1 : SP_2019_MA0003_195_8_20190429_00017.jpg



View looking upstream landside at the annual vegetation that needs to be maintained, Spring 2019.

LM Start	0.01	Rating **	M	Issue No.	9
LM End	5.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.897982 °	38.950817 °
				-121.617871 °	-121.585816 °
DWR ID	DWR_MA0003_01_s_2019_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation needs to be maintained, Spring 2019.					

Photo 1 of 1 : SP_2019_MA0003_195_9_20190429_00018.jpg



View looking upstream waterside at the annual vegetation that needs to be maintained, Spring 2019.

LM Start	0.69	Rating **	M	Issue No.	17
LM End	0.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903352 °	38.903352 °
				-121.607829 °	-121.607829 °
DWR ID	DWR_MA0003_01_s_2017_17				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There is an existing animal hole that is on the outside edge of the landside patrol road and does not appear to have any recent animal activity. It is not effecting the levee prism but it should be backfilled and monitored.					

Photo 1 of 1 : SP_2019_MA0003_195_17_20190305_00001.jpg



View of animal activity on landside levee patrol road, Spring 2019.

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LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/24/2019 04/24/2019	Sterling York

LM Start	0.78	Rating **	C	Issue No.	140
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903339 °	38.903339 °
				-121.606209 °	-121.606209 °
DWR ID	DWR_MA0003_01_f_2014_140				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
The rodent hole on the landward toe road was approximately 8" in diameter the hole is no longer there, Spring 2019.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/24/2019 04/24/2019	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID	17092				

Comment Code

Inspector Comment

FS_ID:53921
DS_ID:17092
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)
04/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are stil in place and condition of flap gates is unknown. (DWR Sutter Yard - A Freitag)10/10/2016 WS pipe end was underwater for inspection but the sandbags still appear to be in place. (DWR Sutter Yard - a Freitag)04/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - a Freitag)05/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - a Freitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)05/14/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)05/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - a Freitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - W. Wylie)
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FS Date: 5/1/2019 2:50:34 PM

Photo 1 of 3 : UCIP_SP_2019_53921_64649.jpg



Concrete headwall with walkway and slide gates at LS toe.

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LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/24/2019 04/24/2019	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141 (cont)	
LM End	0.81	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °	
				-121.605698 °	-121.605698 °	
DWR ID	17092					

Comment Code

Inspector Comment

FS_ID:53921
DS_ID:17092
EP_NO: N/A
Repair Type: Urgent
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FS Date: 5/1/2019 2:50:34 PM

Photo 2 of 3 : UCIP_SP_2019_53921_64648.jpg



Concrete U shaped headwall on WS toe filled in with Sandbags. 16-inch pipe shown over top of headwall.

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LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	5.11	04/24/2019 04/24/2019	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141 (cont)	
LM End	0.81	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °	
				-121.605698 °	-121.605698 °	
DWR ID	17092					

Comment Code

Inspector Comment

FS_ID:53921
DS_ID:17092
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)
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FS Date: 5/1/2019 2:50:34 PM

Photo 3 of 3 : UCIP_SP_2019_53921_64647.jpg



Concrete U shaped headwall filled in with sandbags on WS toe. Flap gates appear to be missing and water readily flows through the sandbags from LS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/24/2019 04/24/2019	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID	17136				

Comment Code

Inspector Comment

FS_ID:53922

DS_ID:17136

EP_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018

Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)

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FS Date: 5/1/2019 2:51:15 PM

Photo 1 of 3 : UCIP_SP_2019_53922_64662.jpg



Concrete headwall, slidegates, and metal walkway on LS toe.

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Unit No. 01 Feather River	Right	5.11	04/24/2019 04/24/2019	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142 (cont)
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID	17136				

Comment Code

Inspector Comment

FS_ID:53922
DS_ID:17136
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)
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FS Date: 5/1/2019 2:51:15 PM

Photo 2 of 3 : UCIP_SP_2019_53922_64661.jpg



Concrete U shaped headwall on WS toe filled with sandbags.

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Unit No. 01 Feather River	Right	5.11	04/24/2019 04/24/2019	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142 (cont)
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.903264 °	38.903264 °	
			-121.605698 °	-121.605698 °	
DWR ID	17136				

Comment Code

Inspector Comment

FS_ID:53922
DS_ID:17136
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 05/01/2019 (O. Magana - DWR UCIP)10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)
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FS Date: 5/1/2019 2:51:15 PM

Photo 3 of 3 : UCIP_SP_2019_53922_64660.jpg



Flap gates appear to be missing from U shaped headwall. Sandbags fill headwall but water flows heavily from LS.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/24/2019 04/24/2019	Sterling York

LM Start	2.18	Rating **	C	Issue No.	18
LM End	2.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s_2015_18				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
No animal activity was viewed at time of the inspection, Spring 2019.					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement